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FIG. 1

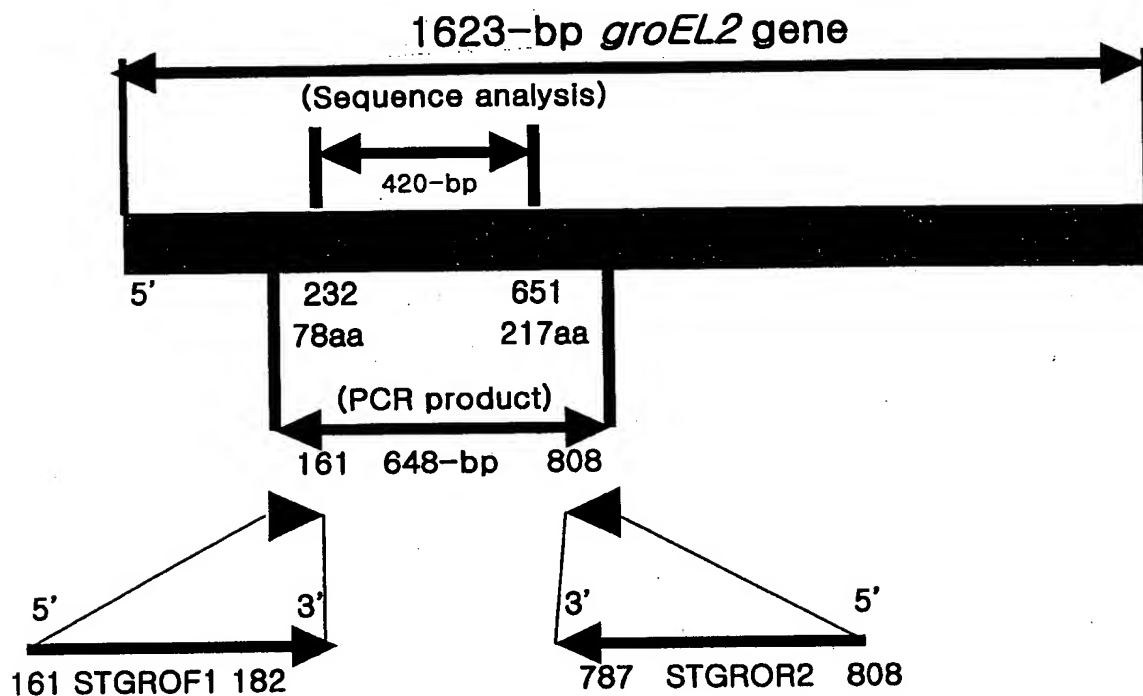
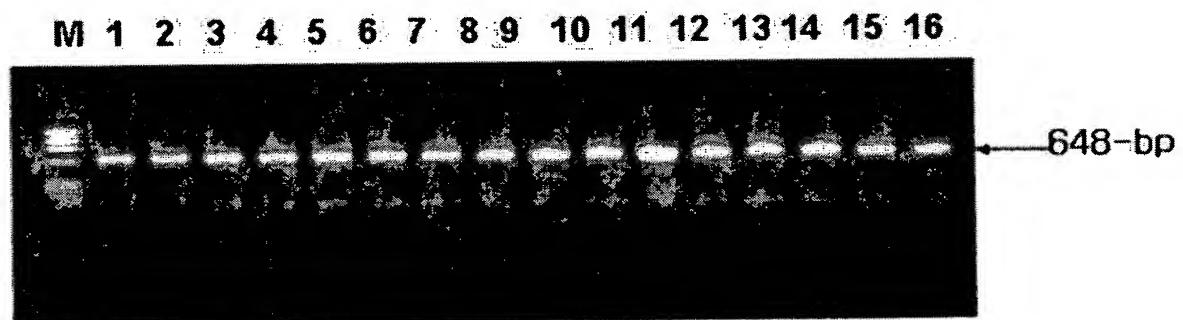
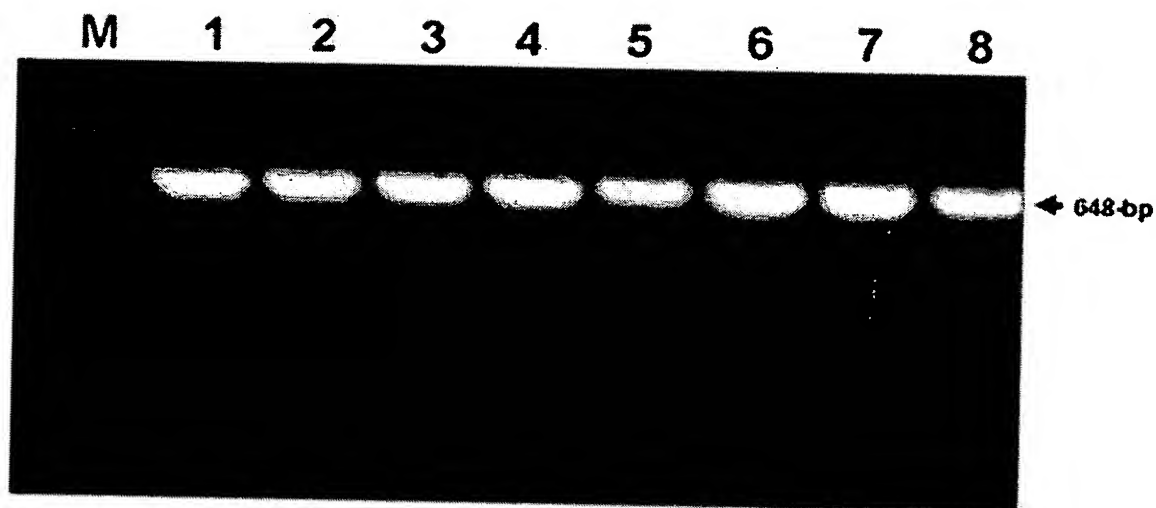


FIG. 2



- 5 M:  $\Phi$ X174 DNA Size Marker, 1: *S. aculeolatus*, 2: *S. albireticuli*  
 3: *S. alofaciens*, 4: *S. albus*, 5: *S. aminophilus*  
 6: *S. argenteolus*, 7: *S. carpinesis*, 8: *S. chartreuses*  
 9: *S. cinnamonesis*, 10: *S. coeruleorubidus*, 11: *S. diastaticus*  
 12: *S. erumpens*, 13: *S. griseolus*, 14: *S. hygrosopicus*  
 10 15: *R. equi*, 16: *T. paurometbola*

FIG. 3



M: DNA Size Marker consisting of DNA fragments of  $\Phi$ X174 digested with *Hae*III

1: *S. scabiei* ATCC 49173<sup>T</sup>

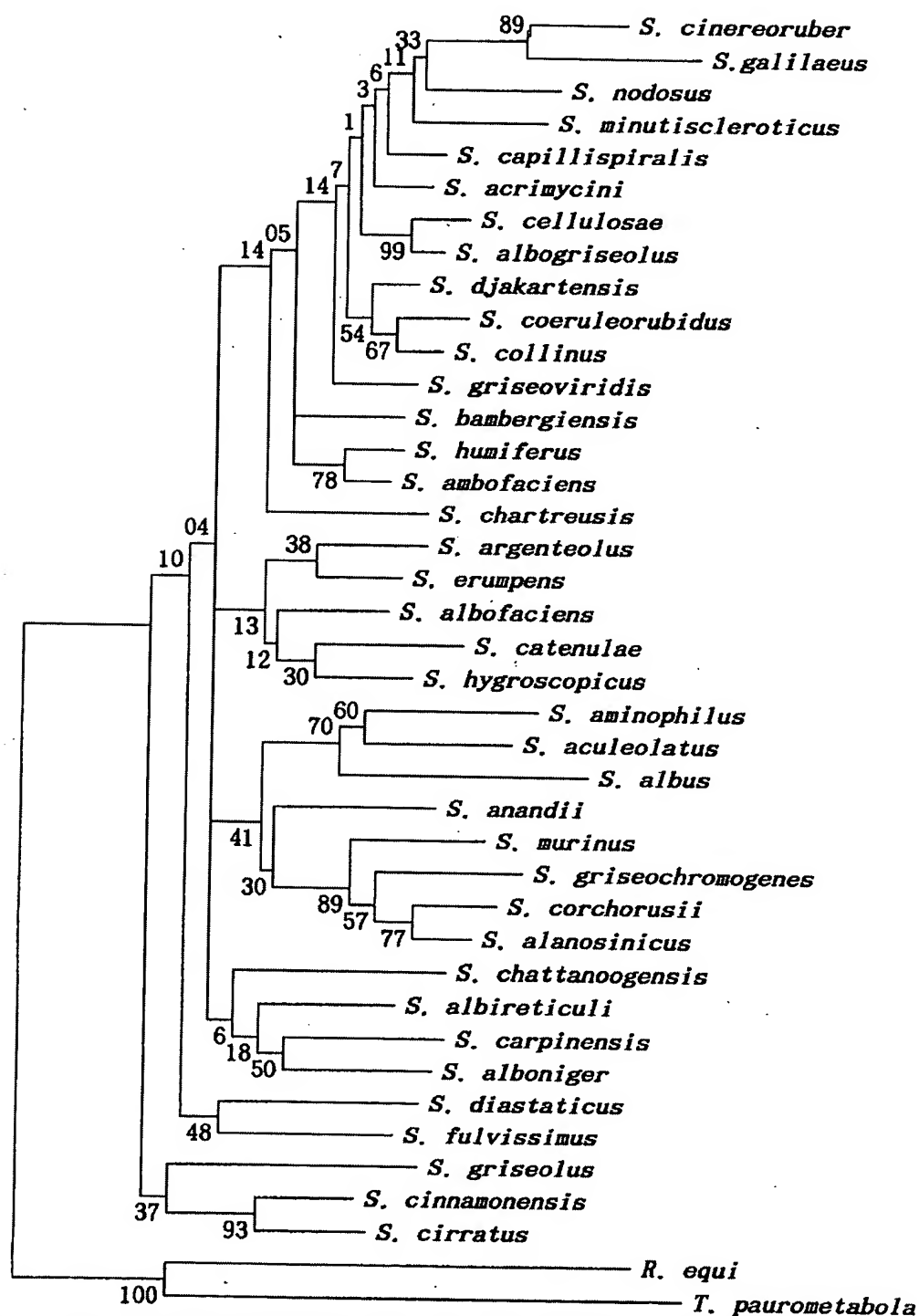
2: *S. scabiei* DSMZ 40962

3: *S. acidiscabies* ATCC 49003<sup>T</sup>

4: *S. turgidiscabies* ATCC 700248<sup>T</sup>

5: Kangwon-S20, 6: Kangwon-S53, 7: Jeju-H11, 8: Jeju-H 20

FIG. 4



Scale: each — is approximately equal to the distance of 0.617934

FIG. 5

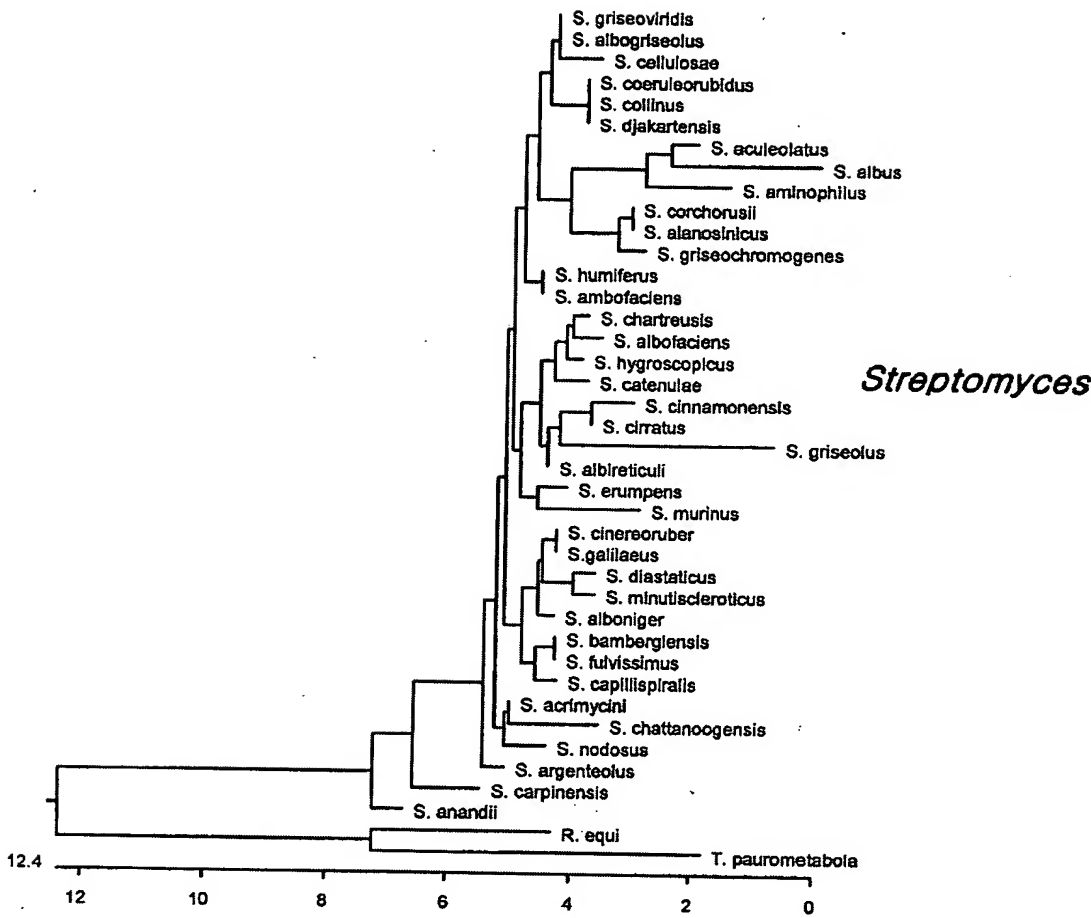
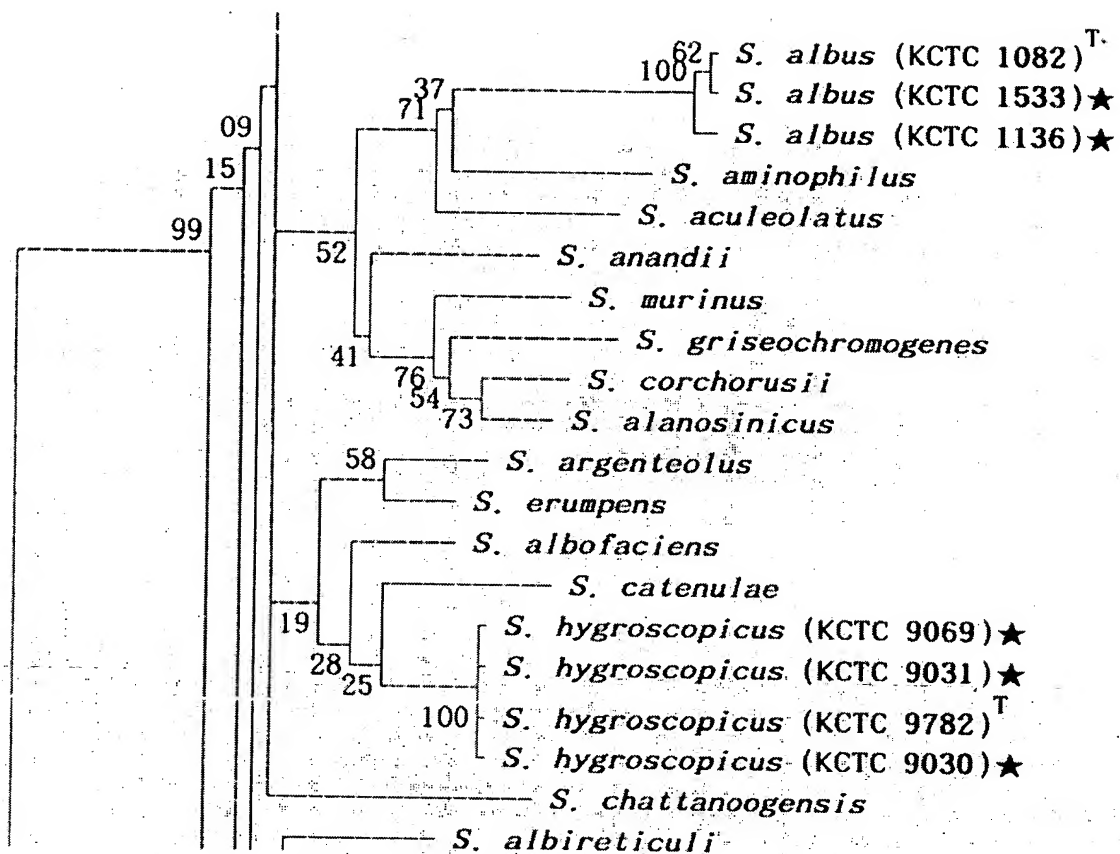


FIG. 6



★: Non type strain

T: Type reference strain

FIG. 7

